PATENT COOPERATION TREATY

PCT

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

ISHIDA, Yasumasa
A. Kato & Associates
Bohsei Bldg., 7th Floor
20-12, Shin-Yokohama 3-chome

Kohoku-ku

Yokohama-shi, Kanagawa 2

Japan



Date of mailing (day/month/year)

20 February 2004 (20.02.04)

Applicant's or agent's file reference

P2710PCT-AJ

International application No.

PCT/JP02/06260

IMPORTANT NOTIFICATION

International filing date (day/month/year)

24 June 2002 (24.06.02)

Applicant

AJINOMOTO CO., INC. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,CA,CN,KP,RO,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CH,CO,CR,CU,CZ,DE,DK,DM,DZ,EC,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NO,NZ,OM,PH,PL,PT,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TN,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZM,ZW,OA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

B

Emmanuel BERROD (Fax 338 7010)

Telephone No. (41-22) 338 8389

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P2710PCT-AJ	FOR FURTHER ACTION		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)
PCT/JP02/06260	24 June 2002 (24.0	5.02)	25 June 2001 (25.06.01)
International Patent Classification (IPC) or no A61K 45/08, A61P 35/00	ational classification and IPC		
Applicant	AJINOMOTO CO.,	INC.	
This international preliminary exami and is transmitted to the applicant ac		by this Interna	ational Preliminary Examining Authority
2. This REPORT consists of a total of	7 sheets, including	g this cover sl	neet.
amended and are the basis for		ning rectificat	on, claims and/or drawings which have been tions made before this Authority (see Rule
These annexes consist of a tot	al of sheets.		
3. This report contains indications relati	ing to the following items:		
I Basis of the report	•		
II Priority			
III Non-establishment of	f opinion with regard to novelty	, inventive ste	p and industrial applicability
IV Lack of unity of inve	ntion		
V Reasoned statement u	under Article 35(2) with regard tions supporting such statement	o novelty, inv	rentive step or industrial applicability;
VI Certain documents ci	ted		
VII Certain defects in the	international application		
VIII Certain observations	on the international application		
Date of submission of the demand	Date of	completion of	this report
25 December 2002 (25.1)	2.02)	03 J	une 2003 (03.06.2003)
Name and mailing address of the IPEA/JP	Authoriz	zed officer	
Facsimile No.	Telepho	ne No.	

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP02/06260

I.	Basis	of the r	report	
1.	With	regard t	to the elements of the international application:*	
	\boxtimes	the inte	ternational application as originally filed	
		the des	escription:	
		pages		_, as originally filed
		pages	,1	iled with the demand
		pages	, filed with the letter of	
		the cla		
		pages		, as originally filed
		pages	, as amended (together with any stater	nent under Article 19
		pages	•	filed with the demand
		pages		
		the dra	awings:	
		pages		_ , as originally filed
		pages		filed with the demand
		pages		
	\Box	he seaue	nence listing part of the description:	
	ш.	pages		as originally filed
		pages	,	filed with the demand
		pages	_	
2.	the ir	nternation e elemen the lan the lan	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). nguage of publication of the international application (under Rule 48.3(b)). unguage of the translation furnished for the purposes of international preliminary examination (which is:
3.	With prelin	minary e contair	d to any nucleotide and/or amino acid sequence disclosed in the international application examination was carried out on the basis of the sequence listing: ined in the international application in written form. together with the international application in computer readable form.	on, the international
			shed subsequently to this Authority in written form.	
		furnish	thed subsequently to this Authority in computer readable form.	
			statement that the subsequently furnished written sequence listing does not go beyond to actional application as filed has been furnished.	he disclosure in the
			statement that the information recorded in computer readable form is identical to the written furnished.	sequence listing has
1 .		The an	mendments have resulted in the cancellation of:	
			the description, pages	
		$\overline{}$	the claims, Nos.	
		=	the drawings, sheets/fig	
i.		This rep	eport has been established as if (some of) the amendments had not been made, since they have led the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	peen considered to go
i	Replain this	s report	sheets which have been furnished to the receiving Office in response to an invitation under Arti rt as "originally filed" and are not annexed to this report since they do not contain ame	cle 14 are referred to ndments (Rule 70.16
* /	1 ny re	eplaceme	nent sheet containing such amendments must be referred to under item 1 and annexed to this repo	rt.

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP02/06260

III. Non-e	stablishment of opinion with regard to novelty, inventive step and industrial applicabi	ility			
1. The quindustri	nestions whether the claimed invention appears to be novel, to involve an inventive ste ially applicable have not been examined in respect of:	p (to be non obvious), or to be			
	the entire international application.				
\boxtimes	claims Nos13-17				
because	cause:				
\boxtimes	the said international application, or the said claims Nos. 13-17 relate to the following subject matter which does not require an international preliminary e	examination (specify):			
Se	ee supplemental sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Not are so unclear that no meaningful opinion could be formed (specify):	S			
<u> </u>	the claims, or said claims Nosby the description that no meaningful opinion could be formed.	_ are so inadequately supported			
<u></u> г	no international search report has been established for said claims Nos1	3-17			
A meanir	ngful international preliminary examination cannot be carried out due to the failure of te listing to comply with the standard provided for in Annex C of the Administrative Instruc	the nucleotide and/or amino acid ctions:			
t	the written form has not been furnished or does not comply with the standard.				
ti	the computer readable form has not been furnished or does not comply with the standard.				
		,			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 02/06260

Sunn	lam	enta	Rox
ounn	ıcm	enta	I DUA

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III. 1.

The inventions set forth in Claims 13-17 pertain to "methods for treatment of the human body by therapy" (PCT Rule 67.1(iv)).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP 02/06260

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	2, 7-8	YES
	Claims	1, 3,-6, 9-12, 18	NO
Inventive step (IS)	Claims		YES
	Claims	1-12, 18	NO
Industrial applicability (IA)	Claims	1-12, 18	YES
	Claims		NO

2. Citations and explanations

The following documents are cited in the international search report.

Document 1: WO 98/32440 A1 (The Proctor & Gamble Co.)

Document 2: WO 97/05870 A2 (The Proctor & Gamble Co.)

Document 3: WO 99/51246 A (Ajinomoto Co., Inc.)

Document 4: B. Raymond et al., "Hypersensitivity

reactions from taxol", Journal of Clinical

Oncology (1990), Vol. 8, No. 7, pp.

1263-1268

Document 5: S. Eckhardt et al., "The effect of docetaxel

on malignant tumors", Orvosi Hetilap (1998),

Vol. 139, No. 15, pp. 867-872

Document 6: George P. Browman et al., "Modified

adriamycin-vincristine-dexamethasone (m-VAD)

in primary and relapsed plasma cell myeloma:

an NCI (Canada) pilot study", British

Journal of Haematology (1992), Vol. 82, pp.

555-559

Document 1 discloses substances with tubulin polymerization inhibiting activity and adreno-corticosteroids as chemotherapeutic agents for combating tumour activity, and mentions that corticosteroids are

PCT/JP 02/06260

used for their antiinflammatory action as well as their capacity to inhibit mitosis and stop DNA synthesis, with dexamethasone, prednisolone and methylprednisolone being such compounds.

Document 2 discloses substances with tubulin polymerization inhibiting activity and adreno-corticosteroids as chemotherapeutic agents having antitumour activity, and mentions that corticosteroids are used for their antiinflammatory action as well as their capacity to inhibit mitosis and stop DNA synthesis, with dexamethasone, prednisolone and methylprednisolone being such compounds.

Document 3 discloses stilbene and the derivative thereof (Z)-N-[2-methoxy-[2-(3,4,5-trimethoxyphenyl)-vinyl]phenyl]-L-serinamide as substances having tubulin polymerization inhibiting activity.

Document 4 discloses combined use of taxol - i.e. a substance with tubulin polymerization inhibiting activity - and a corticosteroid - i.e. a steroidal substance having antiinflammatory activity (see page 1265, lines 11-13).

Document 5 discloses use of docetaxel- i.e. a substance with tubulin polymerization inhibiting activity - in combination with a steroid - i.e. a substance having antiinflammatory activity - in order to mitigate the toxicity thereof.

Document 6 discloses combined use of vincristine - i.e. a substance with tubulin polymerization inhibiting activity - in combination of with dexamethasone - i.e. a substance having antiinflammatory activity - for the treatment of myelomas.

Novelty and inventive step of Claims 1, 3-6, 9-12 and
 18

Documents 1 and 2 do not disclose combined use of a substance with tubulin polymerization inhibiting activity

PCT/JP 02/06260

and a steroidal substance with antiinflammatory activity. However, combined use of a plurality of chemotherapeutic agents for the treatment of cancer is obvious to a person skilled in the art.

Therefore, the inventions set forth in the above claims are not novel and do not involve an inventive step in the light of Document 1 or 2.

The inventions set forth in the above claims are also not novel and do not involve an inventive step in the light of Documents 4, 5 and 6.

Novelty and inventive step of Claims 2 and 7-8

The inventions set forth in the above claims differ from Documents 1, 2, 4, 5 and 6 in that a stilbene derivative, and more especially (Z)-N-[2-methoxy-[2-(3,4,5-trimethoxyphenyl)vinyl]phenyl]-L-serinamide, is used as the substance with tubulin polymerization inhibiting activity. However, aforementioned compounds are known from the disclosure in Document 3 to be substances with tubulin polymerization inhibiting activity. Therefore use of a stilbene derivative, and more especially (Z)-N-[2-methoxy-[2-(3,4,5-trimethoxyphenyl)vinyl]phenyl]-L-serinamide, instead of the other substances with tubulin polymerization inhibiting activity in the inventions disclosed in Documents 1, 2, 4, 5 and 6 is obvious to a person skilled in the art.

Therefore, the inventions set forth in the above claims are novel, but they do not involve an inventive step in the light of Documents 1-6.